

Figure 1 consists of 12 subplots (a-l) showing the effect of various treatments on the growth of *E. coli* O157:H7. Each plot shows log<sub>10</sub> CFU/g over 144 hours. The y-axis for all plots ranges from 0 to 10. The x-axis for all plots ranges from 0 to 144 hours. The subplots are arranged in a 6x2 grid. The first column (a-f) shows the effect of NaCl concentrations (100, 200, 300, 400, 500 mg/L). The second column (g-l) shows the effect of NaCl concentrations (100, 200, 300, 400, 500 mg/L) in combination with NaOH (100, 200 mg/L). In all plots, the bacterial concentration decreases over time. The highest NaCl and NaOH concentrations (500 mg/L NaCl + 200 mg/L NaOH) result in the fastest and most complete inactivation, reaching 0 log<sub>10</sub> CFU/g by 144 hours.

an image forming apparatus with a plurality of modes concerning power consumption, said image forming apparatus being capable of wirelessly transmitting information that there is a waiting job;

a position detector which detects a position of said portable terminal; and

2. An image forming apparatus, comprising:

a receiver which receives reply-information replying to said job-existence-information transmitted wirelessly from said portable terminal;

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terminal whose reply-information is received by said receiver; and  
a mode switcher which switches from one mode concerning power consumption to another based on said position of said portable terminal detected by said position detector.

3. The image forming apparatus as recited in claim 2, further comprising a discriminator which discriminates whether or not said portable terminal is approaching said image forming apparatus based on a detection result by said position detector,

wherein said mode switcher switches from one mode concerning power consumption to another when said discriminator discriminated that said portable terminal is approaching said image forming apparatus.

4. The Image forming apparatus as recited in claim 2, wherein said mode switcher forbids a pre-rotation of a fixing device when said mode is being switched.

5. The Image forming apparatus as recited in claim 2, wherein said mode switcher switches from one mode concerning power consumption from another only when it has been continuously discriminated for a predetermined time that said portable terminal is approaching said image forming apparatus.

6. The Image forming apparatus as recited in claim 2, further

comprising a discriminator which discriminates whether or not said portable terminal is going away from said image forming apparatus based on a detection result by said position detector,

wherein said mode switcher switches from one mode concerning power consumption to another when said output-waiting-job is outputted by said image forming apparatus and it is discriminated that said portable terminal is going away from said discriminator.

7. An image forming apparatus, comprising:

a printer which prints a print job on a paper;

a communication device which communicates wirelessly with a prescribed portable terminal when there is a print job waiting for being printed by said printer;

a position detector which detects a position of said portable terminal based on a communication result of said communication device; and

a mode selector which selects one mode from a plurality of modes concerning power consumption of said printer based on said position of said portable terminal detected by said position detector.

8. The image forming apparatus as recited in claim 7, further comprising a discriminator which discriminates whether or not said portable terminal is approaching said image forming apparatus based on a detection result by said position detector,

wherein said mode selector selects a corresponding mode when said discriminator discriminates that said portable terminal is approaching said image forming apparatus.

9. The image forming apparatus as recited in claim 7, further comprising a discriminator which discriminates whether or not said portable terminal is going away from said image forming apparatus based on a detection result by said position detector,

wherein said mode selector selects a corresponding mode when said discriminator discriminates that said portable terminal is going away from said image forming apparatus after a completion of printing by said printer.

10. The image forming apparatus as recited in claim 7, wherein said plurality of modes include a normal mode in which said printer executes a print job and a power-saving mode in which said printer does not executes a printing job.

11. The image forming apparatus as recited in claim 7, wherein said printer includes a fixing device for fixing an image on a paper with heat, and wherein said plurality of modes differ in control temperature of said fixing device each other.

12. The image forming apparatus as recited in claim 11, wherein said fixing device includes a fixing member

containing a heating source, a pressure member with no heating source which pinches a fixing paper in cooperation with a fixing member, a driving source which drives to rotate said fixing member and said pressure member and a driving controller which starts to operate said driving source when said mode is switched, and

wherein an operation of said driving controller is forbidden when said discriminator discriminates that said portable terminal is approaching said image forming apparatus.

13. The image forming apparatus as recited in claim 8, wherein said mode selector selects a corresponding mode only when it has been continuously discriminated for a predetermined time that said portable terminal is approaching said image forming apparatus.

14. The image forming apparatus as recited in claim 7, wherein said printer executes a print job received from an external device.

15. The image forming apparatus as recited in claim 7, further comprising a terminal selector which selects a portable terminal according to said external device,

wherein said communication device communicates with said portable terminal selected by said terminal selector.

16. The image forming apparatus as recited in claim 7, wherein said printer executes a print job received from said portable terminal.

17. An image forming apparatus, comprising:  
a job-output device which outputs a job;  
a communication device which communicates wirelessly with a prescribed portable terminal when there is an output-waiting-job waiting to be outputted from said job-output device;  
a position detector which detects a position of said portable terminal based on a communication result of said communication device; and  
a controller which controls said image forming apparatus based on said position of said portable terminal detected by said position detector.

18. The image forming apparatus as recited in claim 17, wherein said controller controls a start of an output by said job-output device.

19. The image forming apparatus as recited in claim 17, wherein said controller controls said start of an output by said job-output device when a distance from said image forming apparatus to said portable terminal is within a predetermined distance.

20. The image forming apparatus as recited in claim 17, wherein said controller switches from one mode concerning power consumption of said image forming apparatus to another.

21. The image forming apparatus as recited in claim 17, wherein said controller switches between a normal mode in which said job-output device is capable of executing output processing and a power-saving mode in which said job-output device do not execute said output processing.

22. The image forming apparatus as recited in claim 17, wherein said job-output device outputs a job received from an external device.

23. The image forming apparatus as recited in claim 22, further comprising a terminal selector which selects a portable terminal according to said external device,

wherein said communication device communicates with said portable terminal selected by said terminal selector.

24. The image forming apparatus as recited in claim 17, wherein said job-output device outputs a job received from said portable terminal.

25. An image forming apparatus, comprising:

a printing device which prints a print job on a paper;

a communication device which communicates wirelessly with a prescribed portable terminal when there is a print job waiting for being printed by said printing device;

a position detecting device which detects a position of said portable terminal based on a communication result of said communication device; and

a controller which selects one mode from a plurality of modes concerning power consumption of said printing device based on said position of said portable terminal detected by said position detecting device.

26. An image forming apparatus comprising:

an output device which outputs a job;

a communication device which communicates wirelessly with a prescribed portable terminal when there is an output-waiting-job waiting for being outputted from said output device;

a position detection device which detects a position of said portable terminal based on a communication result of said communication device; and

a controller which controls said image forming apparatus based on said position of said portable terminal detected by said position detection device.

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